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APPLICATION NO.	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,005	11/02/2001	Federico Mailland	Federico Mailland 9056-5CT	
20792	7590 01/14/2004		EXAMINER	
MYERS BIO PO BOX 374	GEL SIBLEY & SAJO	YOUNG, MICAH PAUL		
RALEIGH, N			ART UNIT	PAPER NUMBER
		•	1615	-
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DATE MAILED: 01/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	·	Application	on No.	Applicant(s)			
1		10/016,00		MAILLAND, FEDERICO			
Office Action Summary		Examiner		Art Unit			
	•	Micah-Pa		1615			
	The MAILING DATE of this communication a			correspondence address			
Period fo	• •						
THE - Exte after - If the - If NO - Failu - Any	IORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a roperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the may ed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no evereply within the state in the state	ent, however, may a reply be ti tutory minimum of thirty (30) da rill expire SIX (6) MONTHS fron olication to become ABANDONI	imely filed  bys will be considered timely.  In the mailing date of this communication.  ED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 18	3 October 200	<u>13</u> .				
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ Th	nis action is n	on-final.				
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	☑ Claim(s) <u>20-51</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
•	☑ Claim(s) <u>20-51</u> is/are rejected.						
•	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and	d/or election r	equirement.				
	ion Papers						
	The specification is objected to by the Exami						
10)∟	The drawing(s) filed on is/are: a) a						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
111	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
· —		LAGITITIEI. INC	te the attached Office	s Action of John 1 10-132.			
•	under 35 U.S.C. §§ 119 and 120		-d25 II S O S 440/	a) (d) ar (f)			
	Acknowledgment is made of a claim for fore ☐ All b)☐ Some * c)☐ None of:	eign priority ur	ider 35 U.S.C. § 119(	a)-(a) or (f).			
,	1. Certified copies of the priority docume						
	<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
	application from the International Bure			ed in this National Stage			
	See the attached detailed Office action for a li	ist of the certi	fied copies not receive				
	Acknowledgment is made of a claim for dome ince a specific reference was included in the						
	7 CFR 1.78.	mot somenoc	, or the specimental of	Till all Application Bata office.			
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	Acknowledgment is made of a claim for dome eference was included in the first sentence of						
Attachmen	ot(s)						
	the of References Cited (PTO-892)			y (PTO-413) Paper No(s)			
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s		5) Notice of Informal I 6) Other:	Patent Application (PTO-152)			
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#### **DETAILED ACTION**

Acknowledgement of Papers Received: Amendment and Declaration received 09/17/03.

Claims 1-19 have been canceled and claims 41-51 have been added.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 20-23, 25-28, 30-38, 40-49 are all rejected under 35 U.S.C. 102(b) as being anticipated by Züger (USPN 5,69,911 hereafter referred to as '911). The claims were drawn to a method for improving the bioavailability of an ergot derivative comprising mixing said derivative with a pharmaceutically acceptable carrier. The ergot derivative is selected from the group consisting of  $\alpha$ -dihydroergocryptine and bromocriptine. The excipient was selected from the group consisting of cellulose derivatives well known in the art. The claims are also drawn to a sustained-release composition comprising the ergot derivative and other common excipients well known in the art. The claims further recite that the bioavailability of the compound in increased by 25%.

'911 teaches a sustained release combination of ergot derivatives such as  $\alpha$ dihydroergocryptine (col. 1, lin. 55 – 60) with hydrophilic swelling agents and pharmaceutical
excipients such as hydroxypropylcellulose and beeswax (col. 2, lin. 30 – 55). The reference

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teaches a ratio of ergot derivative to hydrophilic swelling agent of 1:0.5 to 1:40 (col. 4, lin. 37 – col. 5, lin. 25). The reference also teaches that  $\alpha$ -dihydroergocryptine is present in the formulation in a concentration of 1-15 mg (col. 5, lin. 14 – 24). These disclosures render the claims anticipated.

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2. Claims 20, 24 – 27, 29, 41 and 47 rejected under 35 U.S.C. 102(b) as being anticipated by Fluckiger et al (USPN 3,752,888 hereafter referred to as '888). The claims were drawn to a method for improving the bioavailability of an ergot derivative comprising mixing said derivative with a pharmaceutically acceptable carrier. The ergot derivative is bromocriptine. The excipient was selected from the group consisting of cellulose derivatives well known in the art.

'888 discloses a formulation comprising an ergot derivative and swelling agents. The ergot derivative is bromocriptine (abstract). The swelling polymers include sodium carboxy methylcellulose (example and 6). The bromocriptine and the swelling agents are present in a ratio of 1:1.25 (example 5 and 6). The formulation further comprises lubricants and other excipients such as lactose and magnesium stearate (examples 1-6). The disclosures render the claims anticipated.

## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

<sup>(</sup>a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 39 and 51 rejected under 35 U.S.C. 103(a) as being unpatentable over Fluckiger et al (USPN 3,752,888 hereafter referred to as '888). The claims are drawn to a sustained release formulation of bromocriptine having a ratio of swelling polymers to ergot derivative.
- 6. As discussed above '888 discloses a bromocriptine formulation comprising swelling agents. The reference discloses the ratios recited in the instant claims. The reference differs however since it is silent to the release of the ergot derivative.
- 7. However since the ratio of swelling agents to active ingredient is within the parameters of applicant, and no further distinctions are made to distinguish the release of the active other than the swelling polymer, it is the position of the examiner that the products of '888 would have similar if not identical release of the instant invention. It would be obvious to a skilled artisan to use the formulation of '888 to deliver a sustained release formulation identical to that of applicant since the only criteria to differentiate a sustained release formulation from a non-sustained release formulation is swelling agent ratio. Also since the ratio falls within the range of applicant, it would be obvious for a skilled artisan to assume that the bioavailability of the formulation was improved according to the formulation. Again the criteria given by applicant

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are for a particular ratio, which is disclosed in the prior art. It would be inherent to the formulation to have an improved bioavailability according to the criteria established by the instant claims.

One of ordinary skill in the art would be motivated to administer the composition of '888 as a sustained release delivery in order to improve the delivery and administration of the ergot derivative. It would have been within the level of skill in the art to delivery the composition of '888 as a sustained release formulation with improved bioavailability since the composition discloses an ideal ratio such pharmacology. It would have been obvious for a skilled artisan to follow the suggestions with an expected result of a sustained release formulation of bromocriptine with improved bioavailability.

#### Response to Amendment

8. The Declaration under 37 CFR 1.132 filed 09/17/03 is insufficient to overcome the rejection of claims 20 – 40 based upon USC 102 (b) and 103 (a) as set forth in the last Office action because: The declaration is not commensurate with the scope of the instant claims. The declaration is drawn to a specific example of an ergot derivative formulation, while the claims are drawn to a generic formulation. The examples of the declaration disclose specific concentrations, which are not represented in the instant claims. Also the declaration cannot be used to overcome 102(b) rejection since the rejection is based on one of the anticipation and not of obviousness.

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## Response to Arguments

9. Applicant's arguments filed 9/17/03 have been fully considered but they are not persuasive.

# Claims Rejection Under 35 USC 102:

Applicant argues that '888 does not in fact teach a composition comprising ergot derivatives and swelling agents in a ratio from 1:0.5 to 1:2. The examiner agrees with this assessment, yet draw applicant's attention to col. 4, lin. 44 – 68 where the ratios of ergot derivatives including dihydroergocryptine range from 1:4 to 1:25, which falls within the 1:0.5 to about 1:5 range of the instant claims. Also the examiner directs applicant's attention to col. 5, lin. 14 – 25, which discloses that dihydroergocryptine is present in the formulation in 1-15 mg dosages. In view of these disclosures, the claims remain rejected.

#### Election/Restrictions

10. This application contains claims directed to the following patentably distinct species of the claimed invention: a)  $\alpha$ -dihydroergocryptine and b) bromocriptine

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 20 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable

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thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

#### Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Micah-Paul Young whose telephone number is 703-308-7005. The examiner can normally be reached on M-F 7:00-4:30 every other Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on 703-308-2927. The fax phone number for the organization where this application or proceeding is assigned is 703-746-7648.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1234.

Micah-Paul Young Examiner Art Unit 1615

MP Young

THURMAN K. PAGE
SUPERVISORY PATENT EXAMINER
(TECHNOLOGY CENTER 1600